

Batiquitos Lagoon Valley Groundwater Basin

- Groundwater Basin Number: 9-22
- County: San Diego
- Surface Area: 741 acres (1.2 square miles)

Basin Boundaries and Hydrology

This groundwater basin underlies Green Valley and San Marcos Creek Valley in western San Diego County (Rogers 1965; DWR 1967). The basin is bounded on the northeast by impermeable crystalline rocks, on the west by Batiquitos Lagoon, and otherwise by semi-permeable rocks of the La Jolla Formation. San Marcos and Encinitas Creeks drain the valleys westward into Batiquitos Lagoon. Average annual precipitation ranges from 7 to 15 inches.

Hydrogeologic Information

Water Bearing Formations

The primary water-bearing unit in this basin is Quaternary alluvium, which consists of gravel, sand, silt, and clay deposits that reach a maximum thickness of about 100 feet (DWR 1967). Additional groundwater is produced from the Eocene La Jolla Formation (DWR 1967).

Groundwater Level Trends

The water level in a well in the western part of the basin was at about 56 feet depth in 1977.

Groundwater Storage

Groundwater Storage Capacity. Unknown

Groundwater in Storage. Unknown

Groundwater Budget (Type C)

Not enough information is available to construct a budget.

Groundwater Quality

Characterization. Groundwater in this basin is dominantly sodium chloride in character and has an average TDS content of about 1,280 mg/L with a range from about 788 to 2,362 mg/L (DWR 1967).

Impairments. The groundwater in this basin was rated inferior for irrigation because of high chloride content and marginal for domestic use because of high sulfate and TDS concentrations (DWR 1967).

Well Characteristics

Well yields (gal/min)		
Municipal/Irrigation	Range:	Average:
Total depths (ft)		
Domestic	Range:	Average:
Municipal/Irrigation	Range:	Average:

Active Monitoring Data

Agency	Parameter	Number of wells /measurement frequency
Department of Health Services and cooperators	Groundwater levels	
	Miscellaneous water quality	
	Title 22 water quality	

Basin Management

Groundwater management:

Water agencies

Public

Private

References Cited

- California Department of Water Resources (DWR). 1967. *Ground Water Occurrence and Quality: San Diego Region*. Bulletin No. 106-2. 235 p.
- Rogers, T. H. 1965. *Geologic Map of California, Santa Ana Sheet*. California Division of Mines and Geology. 1 sheet. Scale 1:250,000.

Additional References

- Ellis, A. J., and C. H. Lee. 1919. *Geology and ground waters of the western part of San Diego County, California*. U.S. Geological Survey Water Supply Paper 446. 321 p.

Errata

Substantive changes made to the basin description will be noted here.